

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--|---|------------------|---------|------------------|
| L46 | 34 | ((decreas\$4 near9 (speed or velocity)) same ((exceed\$4 or (greater\$2 adj2 (than or then)) or (more\$2 adj2 (than or then)) or (higher\$2 adj2 (than or then)) or higher) near4 ((voltage or power or (absolute\$2 adj2 value)) near9 (exceed\$4 or (greater\$2 adj2 (than or then)) or (more\$2 adj2 (than or then)) or (higher\$2 adj2 (than or then)) or higher)))) and (inverter or converter) and (speed or velocity) and motor and ((increas\$4 near4 (speed or velocity)) same ((lower\$4 or (less\$2 adj2 (than or then)) or (lower\$2 adj2 (than or then)) or less\$2 or below) near9 ((voltage or power or (absolute\$2 adj2 value)) near9 (exceed\$4 or (greater\$2 adj2 (than or then)) or (more\$2 adj2 (than or then)) or (higher\$2 adj2 (than or then)) or higher)))) and (inverter or converter) and (speed or velocity)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/28 15:15 |
| L54 | 28 | ((decreas\$4 near9 (current or voltage or speed or velocity)) same ((exceed\$4 or (greater\$2 adj2 (than or then)) or (more\$2 adj2 (than or then)) or (higher\$2 adj2 (than or then)) or higher) near4 ((voltage or current or power or ((absolute\$2 or mean) adj2 value)) near9 (exceed\$4 or (greater\$2 adj2 (than or then)) or (more\$2 adj2 (than or then)) or (higher\$2 adj2 (than or then)) or higher)))) and (inverter or converter) and (speed or velocity) and motor and (((increas\$4 or rais\$4) near4 (speed or velocity or current or voltage)) same ((lower\$4 or (less\$2 adj2 (than or then)) or (lower\$2 adj2 (than or then)) or less\$2 or below) near9 ((voltage or power or current or ((mean or absolute\$2) adj2 value)) near9 (exceed\$4 or (greater\$2 adj2 (than or then)) or (more\$2 adj2 (than or then)) or (higher\$2 adj2 (than or then)) or higher)))) and (inverter or converter) and (speed or velocity) and (value near4 (absolute or mean)) and current and voltage and increas\$4 and decreas\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/28 16:03 |
| L55 | 27 | 54 not 46 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/28 15:41 |
| L56 | 112 | ((decreas\$4 near9 (current or voltage or speed or velocity)) same ((exceed\$4 or (greater\$2 adj2 (than or then)) or (more\$2 adj2 (than or then)) or (higher\$2 adj2 (than or then)) or higher) near4 ((voltage or current or power or magnitude or ((absolute\$2 or mean) adj2 value)) near9 (exceed\$4 or (greater\$2 adj2 (than or then)) or (more\$2 adj2 (than or then)) or (higher\$2 adj2 (than or then)) or higher)))) and (inverter or converter) and (speed or velocity) and motor and (((increas\$4 or rais\$4) near4 (speed or velocity or current or voltage)) same ((lower\$4 or (less\$2 adj2 (than or then)) or (lower\$2 adj2 (than or then)) or less\$2 or below) near9 ((voltage or power or current or magnitude or ((mean or absolute\$2) adj2 value)) near9 (exceed\$4 or (greater\$2 adj2 (than or then)) or (more\$2 adj2 (than or then)) or (higher\$2 adj2 (than or then)) or higher)))) and (inverter or converter) and (speed or velocity) and (magnitude or (value near4 (absolute or mean))) and current and voltage and increas\$4 and decreas\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/28 16:16 |
| L59 | 31 | 56 not (46 or 55) and (ac or (alternating near2 current)) and ((speed or velocity) near4 control\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/28 16:06 |

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|-----|-----|--|---|----|----|------------------|
| L60 | 35 | (((decreas\$4 near9 (current or voltage or speed or velocity)) same ((exceed\$4 or (greater\$2 adj2 (than or then)) or (more\$2 adj2 (than or then)) or (higher\$2 adj2 (than or then)) or higher)) near4 ((voltage or current or power or magnitude or ((absolute\$2 or mean) adj2 value)) near9 (exceed\$4 or (greater\$2 adj2 (than or then)) or (more\$2 adj2 (than or then)) or (higher\$2 adj2 (than or then)) or higher)))) and (inverter or converter) and (speed or velocity) and motor and (((increas\$4 or rais\$4) near4 (speed or velocity or current or voltage)) same ((lower\$4 or (less\$2 adj2 (than or then)) or (lower\$2 adj2 (than or then)) or less\$2 or below) near9 ((voltage or power or current or magnitude or ((mean or absolute\$2) adj2 value)) near9 (exceed\$4 or (greater\$2 adj2 (than or then)) or (more\$2 adj2 (than or then)) or (higher\$2 adj2 (than or then)) or higher)))) and (inverter or converter) and (speed or velocity) and (magnitude or (value near4 (absolute or mean))) and current and voltage and increas\$4 and decreas\$4 and (brushless or (dc near4 motor) or ((direct\$2 adj2 current) near4 motor)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/28 16:20 |
| L61 | 10 | (((decreas\$4 near9 (current or voltage or speed or velocity)) same ((exceed\$4 or (greater\$2 adj2 (than or then)) or (more\$2 adj2 (than or then)) or (higher\$2 adj2 (than or then)) or higher)) near4 ((voltage or current or power or magnitude or ((absolute\$2 or mean) adj2 value)) near9 (exceed\$4 or (greater\$2 adj2 (than or then)) or (more\$2 adj2 (than or then)) or (higher\$2 adj2 (than or then)) or higher)))) and (inverter or converter) and (speed or velocity) and motor and (((increas\$4 or rais\$4) near4 (speed or velocity or current or voltage)) same ((lower\$4 or (less\$2 adj2 (than or then)) or (lower\$2 adj2 (than or then)) or less\$2 or below) near9 ((voltage or power or current or magnitude or ((mean or absolute\$2) adj2 value)) near9 (exceed\$4 or (greater\$2 adj2 (than or then)) or (more\$2 adj2 (than or then)) or (higher\$2 adj2 (than or then)) or higher)))) and (inverter or converter) and (speed or velocity) and (magnitude or (value near4 (absolute or mean))) and current and voltage and increas\$4 and decreas\$4 and (brushless) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/28 16:20 |
| L62 | 6 | "6367273" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/28 17:45 |
| L63 | 9 | "5646499" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/28 17:45 |
| S1 | 860 | 318/805 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/14 19:06 |
| S2 | 220 | S1 and inverter and (rectify\$4 or rectifier) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/14 19:07 |
| S3 | 55 | S1 and inverter and (rectify\$4 or rectifier) and voltage and ((estimat\$4 or calculat\$4) near4 voltage) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/14 19:09 |
| S4 | 5 | S1 and inverter and (rectify\$4 or rectifier) and voltage and current and ((estimat\$4 or calculat\$4) near4 voltage).ab. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/14 19:12 |
| S5 | 12 | S1 and inverter and (rectify\$4 or rectifier) and voltage and current and ((estimat\$4 or calculat\$4) near4 (current or power or voltage)).ab. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/14 19:45 |

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|-----|-------|---|---|----|-----|------------------|
| S6 | 14 | "5457375" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/14 19:37 |
| S7 | 19 | S1 and inverter and (rectify\$4 or rectifier) and voltage and current and ((estimat\$4 or calculat\$4 or determin\$4) near4 (power or voltage)).ab. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/14 20:20 |
| S8 | 13 | S7 not S5 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/14 19:46 |
| S10 | 869 | (318/720-724).CCLS. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/02/14 20:22 |
| S11 | 3 | S10 and inverter and (rectify\$4 or rectifier) and voltage and current and ((estimat\$4 or calculat\$4 or determin\$4) near2 (power or voltage)).ab. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/15 13:00 |
| S12 | 872 | (318/720-724).CCLS. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/02/15 13:00 |
| S13 | 52 | S12 and inverter and (rectify\$4 or rectifier) and voltage and current and ((estimat\$4 or calculat\$4 or determin\$4) near2 (power or voltage)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/15 13:00 |
| S14 | 10 | S12 and inverter and (rectify\$4 or rectifier) and voltage and current and ((estimat\$4 or calculat\$4 or determin\$4) near2 (power or source)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/15 13:03 |
| S15 | 1 | S12 and inverter and (rectify\$4 or rectifier) and voltage and current and ((estimat\$4 or calculat\$4) near2 (power or source)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/15 13:10 |
| S16 | 12995 | (318/727-832).CCLS. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/02/15 13:04 |
| S17 | 41 | S16 and inverter and (rectify\$4 or rectifier) and voltage and current and ((estimat\$4 or calculat\$4) near2 (power or source)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/15 13:12 |
| S18 | 21 | S16 and inverter.ab. and (rectify\$4 or rectifier) and voltage and current and ((estimat\$4 or calculat\$4) near2 (power or source)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/12 16:37 |
| S19 | 18 | "1034968" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/15 17:22 |

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|-----|-------|---|---|----|-----|------------------|
| S20 | 0 | "10342070" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/15 17:22 |
| S21 | 9 | "5457290" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/15 17:23 |
| S22 | 28 | ((("5811946") or ("5874821") or ("5878015") or ("6078161") or ("6222340") or ("6507713") or ("6600287") or ("4757603") or ("5423192") or ("5869946") or ("6035254") or ("6104113") or ("5329195"))).PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/02/15 20:32 |
| S23 | 6973 | 318/254 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/15 20:32 |
| S24 | 81 | S23 and (pulse\$2 adj2 width) and integrat\$4 and sampl\$4 and (emf or bemf or cemf) and (speed or velocity) and (angl\$4 or angular) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/15 20:34 |
| S25 | 18 | S23 and (pulse\$2 adj2 width) and integrat\$4 and sampl\$4 and ((emf or bemf or cemf or electromotive) near4 integrat\$4) and (speed or velocity) and (angl\$4 or angular) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/15 20:40 |
| S26 | 11 | S23 and (pulse\$2 adj2 width) and integrat\$4 and sampl\$4 and ((emf or bemf or cemf or electromotive) near4 integrat\$4) and (speed or velocity) and (angl\$4 or angular) and (sampl\$4 near4 (emf or bemf or cemf or electromotive)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/15 20:53 |
| S27 | 2 | ("4724402" "4928043").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/02/15 20:49 |
| S28 | 13 | S23 and ((pulse\$2 adj2 width) or pwm or pulse) and integrat\$4 and sampl\$4 and ((emf or bemf or cemf or electromotive) near4 integrat\$4) and (speed or velocity) and (angl\$4 or angular) and (sampl\$4 near4 (emf or bemf or cemf or electromotive)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/15 20:54 |
| S29 | 1334 | inverter and rectifier and current and voltage and motor and ((estimat\$4 or feedback or calculat\$4) near4 voltage) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/12 16:41 |
| S30 | 559 | inverter and rectifier and current and voltage and motor and ((estimat\$4 or feedback or calculat\$4) near4 voltage) and (increas\$4 near4 (current or voltage)) and (decreas\$4 near4 (current or voltage)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/12 16:43 |
| S31 | 212 | inverter and rectifier and current and voltage and motor and ((estimat\$4 or feedback or calculat\$4) near4 voltage) and (increas\$4 near4 (current or voltage)) and (decreas\$4 near4 (current or voltage)) and (emf or bemf or cemf or electromotive or (zero\$2 adj2 cross\$4) or zerocross\$4). | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/12 16:46 |
| S32 | 13006 | (318/727-832).CCLS. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/12 16:44 |
| S33 | 43 | S31 and S32 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/12 16:46 |

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|-----|------|---|---|----|----|------------------|
| S34 | 393 | inverter and rectifier and current and voltage and motor and ((estimat\$4 or feedback or calculat\$4 or referenc\$4) near4 voltage) and (increas\$4 near4 (current or voltage)) and (decreas\$4 near4 (current or voltage)) and ((emf or bemf or cemf or electromotive or (zero\$2 adj2 cross\$4) or zerocross\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/12 16:58 |
| S35 | 70 | S34 and S32 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/12 16:59 |
| S36 | 143 | inverter and rectifier and current and voltage and motor and ((estimat\$4 or feedback or calculat\$4 or referenc\$4) near4 voltage) and (increas\$4 near4 (current or voltage)) and (decreas\$4 near4 (current or voltage)) and ((emf or bemf or cemf or electromotive or (zero\$2 adj2 cross\$4) or zerocross\$4) near4 (sens\$4 or detect\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/12 16:58 |
| S37 | 26 | S36 and S32 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/12 16:59 |
| S38 | 110 | ("5592580" "5835676" "5848659" "5936856" "4376913" "4567555" "4620296" "4999561" "5216353" "5239250" "5313150" "5368116" "5569995" "5608302" "5629596" "5640111" "5646499" "5675484" "5677610" "5747959" "5748459" "5777447" "5780980" "5801497" "5877601" "5963442" "6023420" "6034492" "6043534" "6058032" "6066928" "4319177" "4321520" "4344026" "4353023" "4355268" "4400656" "4426610" "4434393" "4444285" "4458192" "4481456" "4482031" "4509003" "4510430" "4560927" "4832133" "4853559" "4900992" "4952786").pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/18 18:28 |
| S39 | 336 | rectifier and (ac or (alternating near4 current)) and (inverter or converter) and (estimat\$4 near4 voltage) and (current or voltage) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/17 21:42 |
| S40 | 0 | S38 and S39 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/17 21:42 |
| S41 | 2 | S38 and (estimat\$4 near4 voltage) and (current or voltage) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/20 16:21 |
| S42 | 2 | S38 and (estimat\$4 near4 voltage) and (current or voltage) and (lower\$4 or decreas\$4 or increas\$4 or rais\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/17 21:56 |
| S47 | 8 | S38 and ((estimat\$4 or calculat\$4) near4 voltage) and (current or voltage) and (((lower\$4 or decreas\$4) and (increas\$4 or rais\$4)) near4 (power or current or voltage)) and (lower\$4 or decreas\$4) and (increas\$4 or rais\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/18 11:53 |
| S49 | 8 | S38 and (absolute near4 value) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/28 17:32 |
| S50 | 9 | S38 and (inductor) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/17 22:22 |
| S51 | 1627 | ((estimat\$4 or calculat\$4) near4 voltage) and (current or voltage) and (((lower\$4 or decreas\$4) and (increas\$4 or rais\$4)) near4 (power or current or voltage)) and (lower\$4 or decreas\$4) and (increas\$4 or rais\$4) and (absolute near4 value) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/18 11:55 |

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|-----|------|--|---|----|----|------------------|
| S52 | 1034 | ((estim4\$ or calculat4\$) near4 voltage) and (current or voltage) and (((lower\$4 or decreas\$4) and (increas\$4 or rais\$4)) near4 (power or current or voltage)) and (lower\$4 or decreas\$4) and (increas\$4 or rais\$4) and (absolute near4 value) and (inverter or converter) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/18 11:56 |
| S53 | 27 | 318/805 and ((estim4\$ or calculat4\$) near4 voltage) and (current or voltage) and (((lower\$4 or decreas\$4) and (increas\$4 or rais\$4)) near4 (power or current or voltage)) and (lower\$4 or decreas\$4) and (increas\$4 or rais\$4) and (absolute near4 value) and (inverter or converter) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/18 12:01 |
| S54 | 9 | 318/805 and ((estim4\$) near4 voltage) and (current or voltage) and (((lower\$4 or decreas\$4) and (increas\$4 or rais\$4)) near4 (power or current or voltage)) and (lower\$4 or decreas\$4) and (increas\$4 or rais\$4) and (absolute near4 value) and (inverter or converter) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/18 13:33 |
| S55 | 18 | S53 not S54 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/18 13:28 |
| S56 | 163 | ((estim4\$) near4 voltage) and (current or voltage) and (((increas\$4 or rais\$4) near4 (power or current or voltage)) same ((lower\$4 or decreas\$4) near4 (power or current or voltage))) and (lower\$4 or decreas\$4) and (increas\$4 or rais\$4) and (absolute near4 value) and (inverter or converter) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/18 14:59 |
| S57 | 54 | ((estim4\$) near4 voltage) and (current or voltage) and (((increas\$4 or rais\$4) near4 (power or current or voltage)) same ((lower\$4 or decreas\$4) near4 (power or current or voltage))) and (lower\$4 or decreas\$4) and (increas\$4 or rais\$4) and (absolute near4 value) and (inverter or converter) and inductor | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/18 15:00 |
| S58 | 123 | ((estim4\$) near4 voltage) and (current or voltage) and (((increas\$4 or rais\$4) near4 (power or current or voltage)) same ((lower\$4 or decreas\$4) near4 (power or current or voltage))) and (lower\$4 or decreas\$4) and (increas\$4 or rais\$4) and (absolute near4 value) and (inverter or converter) and ((sens\$4 or detect\$4 or monitor\$4) near4 voltage) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/18 15:01 |
| S59 | 51 | ((estim4\$) near4 voltage) and (current or voltage) and (((increas\$4 or rais\$4) near4 (power or current or voltage)) same ((lower\$4 or decreas\$4) near4 (power or current or voltage))) and (lower\$4 or decreas\$4) and (increas\$4 or rais\$4) and (absolute near4 value) and (inverter or converter) and ((sens\$4 or detect\$4 or monitor\$4) near4 voltage) and ((compar\$4 or judg\$4) near4 (absolute adj2 value)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/18 15:02 |
| S60 | 60 | ((estim4\$) near4 voltage) and (current or voltage) and (((increas\$4 or rais\$4) near4 (power or current or voltage)) same ((lower\$4 or decreas\$4) near4 (power or current or voltage))) and (lower\$4 or decreas\$4) and (increas\$4 or rais\$4) and (absolute near4 value) and (inverter or converter) and ((sens\$4 or detect\$4 or monitor\$4) near4 voltage) and ((compar\$4 or judg\$4) same (absolute adj2 value)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/18 15:04 |
| S61 | 55 | ((estim4\$) near4 voltage) and (current or voltage) and (((increas\$4 or rais\$4) near4 (power or current or voltage)) same ((lower\$4 or decreas\$4) near4 (power or current or voltage))) and (lower\$4 or decreas\$4) and (increas\$4 or rais\$4) and (absolute near4 value) and (inverter or converter) and ((sens\$4 or detect\$4 or monitor\$4) near4 voltage) and ((compar\$4 or judg\$4) same (absolute adj2 value)) and (motor or actuator or machine) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/18 15:07 |
| S62 | 111 | ((estim4\$ or calculat4\$) near4 voltage) and (current or voltage) and (((increas\$4 or rais\$4) near4 (power or current or voltage)) same ((lower\$4 or decreas\$4) near4 (power or current or voltage))) and (lower\$4 or decreas\$4) and (increas\$4 or rais\$4) and (absolute near4 value) and (inverter or converter) and ((sens\$4 or detect\$4 or monitor\$4) near4 voltage) and ((compar\$4 or judg\$4) same (absolute adj2 value)) and (motor or actuator or machine) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/18 15:49 |
| S63 | 56 | S62 not S61 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/18 15:08 |

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|-----|-----|---|---|----|----|------------------|
| S64 | 111 | ((estimat\$4 or calculat\$4) near4 voltage) and (current or voltage) and (((increas\$4 or rais\$4) near4 (power or current or voltage)) same ((lower\$4 or decreas\$4) near4 (power or current or voltage))) and (lower\$4 or decreas\$4) and (increas\$4 or rais\$4) and (absolute near4 value) and (inverter or converter) and ((sens\$4 or detect\$4 or monitor\$4) near4 voltage) and ((compar\$4 or judg\$4) same (absolute adj2 value)) and (motor or actuator or machine) and (inverter or converter) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/18 17:39 |
| S65 | 168 | ((determin\$4) near4 voltage) and (current or voltage) and (((increas\$4 or rais\$4) near4 (power or current or voltage)) same ((lower\$4 or decreas\$4) near4 (power or current or voltage))) and (lower\$4 or decreas\$4) and (increas\$4 or rais\$4) and (absolute near4 value) and (inverter or converter) and ((sens\$4 or detect\$4 or monitor\$4) near4 voltage) and ((compar\$4 or judg\$4) same (absolute adj2 value)) and (motor or actuator or machine) and (inverter or converter) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/18 18:13 |
| S66 | 86 | S65 not S64 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/18 18:14 |
| S67 | 110 | ("5592580" "5835676" "5848659" "5936856" "4376913" "4567555" "4620296" "4999561" "5216353" "5239250" "5313150" "5368116" "5569995" "5608302" "5629596" "5640111" "5646499" "5675484" "5677610" "5747959" "5748459" "5777447" "5780980" "5801497" "5877601" "5963442" "6023420" "6034492" "6043534" "6058032" "6066928" "4319177" "4321520" "4344026" "4353023" "4355268" "4400656" "4426610" "4434393" "4444285" "4458192" "4481456" "4482031" "4509003" "4510430" "4560927" "4832133" "4853559" "4900992" "4952786").pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/18 18:28 |
| S68 | 6 | S67 and brushless | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/18 18:29 |
| S69 | 5 | S67 and brushless and voltage and inverter and (AC or alternat\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/18 18:29 |
| S70 | 5 | S67 and brushless and voltage and inverter and (AC or (alternat\$4 near4 current)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/18 18:30 |
| S71 | 3 | S67 and brushless and voltage and inverter and (AC or (alternat\$4 near4 current)) and (estimat\$4 or calculat\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/18 18:37 |
| S72 | 9 | S67 and inductor | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/18 18:39 |
| S73 | 20 | S67 and (inductor or inductance) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/18 18:39 |
| S74 | 12 | S67 and (inductor or inductance) and rectifier | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/18 18:40 |
| S75 | 211 | 318/801 and (inductor or inductance) and rectifier | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/18 18:40 |

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|-----|-----|---|---|----|----|------------------|
| S76 | 49 | 318/801 and (inductor or inductance) and rectifier and ((calculat\$4 or estimat\$4) near4 voltage) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/18 18:41 |
| S77 | 48 | 318/801 and (inductor or inductance) and rectifier and ((calculat\$4 or estimat\$4) near4 voltage) and (inverter or converter) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/18 18:41 |
| S78 | 45 | 318/801 and (inductor or inductance) and rectifier and ((calculat\$4 or estimat\$4) near4 voltage) and (inverter or converter) and (ac or (alternat\$4 near4 current)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/18 18:47 |
| S79 | 23 | ("20040124807" "20040207360" "20040228151" "20040232876" "20040232877" "20040246641" "20050007061" "4992718" "5206575" "5457375" "5561595" "5614803" "5852551" "6002218" "6191545" "6229278" "6337548" "6414455" "6489692" "6512341" "6751105" "6819078" "6822417").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/08/18 18:43 |
| S80 | 22 | 318/801 and (inductor or inductance) and rectifier and ((estimat\$4) near4 voltage) and (inverter or converter) and (ac or (alternat\$4 near4 current)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/18 18:52 |
| S81 | 9 | 318/801 and (inductor or inductance) and rectifier and ((estimat\$4) near4 voltage) and (inverter or converter) and (ac or (alternat\$4 near4 current)) and brushless | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/18 18:54 |
| S82 | 0 | S79 and (inductor or inductance) and rectifier and ((estimat\$4) near4 voltage) and (inverter or converter) and (ac or (alternat\$4 near4 current)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/18 18:54 |
| S83 | 1 | S79 and rectifier and ((estimat\$4) near4 voltage) and (inverter or converter) and (ac or (alternat\$4 near4 current)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/18 18:55 |
| S84 | 1 | S79 and rectifier and ((estimat\$4) same voltage) and (inverter or converter) and (ac or (alternat\$4 near4 current)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/18 18:56 |
| S85 | 1 | S79 and rectifier and ((estimat\$4) same voltage) and (inverter or converter) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/18 18:56 |
| S86 | 110 | ("5592580" "5835676" "5848659" "5936856" "4376913" "4567555" "4620296" "4999561" "5216353" "5239250" "5313150" "5368116" "5569995" "5608302" "5629596" "5640111" "5646499" "5675484" "5677610" "5747959" "5748459" "5777447" "5780980" "5801497" "5877601" "5963442" "6023420" "6034492" "6043534" "6058032" "6066928" "4319177" "4321520" "4344026" "4353023" "4355268" "4400656" "4426610" "4434393" "4444285" "4458192" "4481456" "4482031" "4509003" "4510430" "4560927" "4832133" "4853559" "4900992" "4952786").pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/20 16:21 |
| S87 | 2 | S86 and (estimat\$4 near4 voltage) and (current or voltage) and (Speed or velocity) and frequency | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/20 16:23 |
| S88 | 2 | S86 and (estimat\$4 near4 voltage) and (current or voltage) and (Speed or velocity) and frequency and (increas\$4) and decreas\$4 and drop\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/08/28 13:28 |